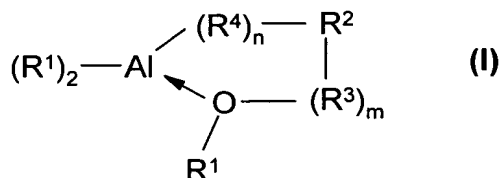


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

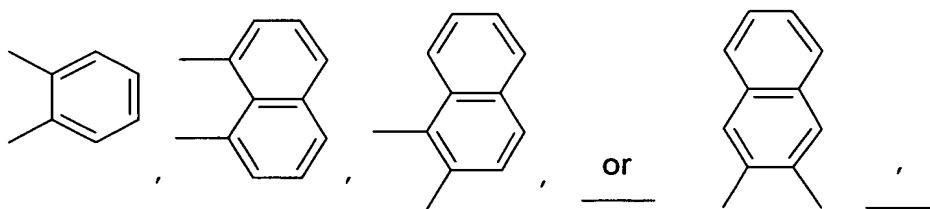
1. (Currently Amended) ~~Compounds of the general~~ A compound of
formula (I)



in which

R^1 is, in each case independently of one another, ~~denote~~ a branched or unbranched C_1 - C_7 -alkyl, -cycloalkyl, -alkenyl, -cycloalkenyl, -aryl or -alkynyl;

R^2 is ~~denotes unsubstituted, mono- or polyalkylated and/or mono- or polyfluorinated aromatic hydrocarbons from the group~~



which is unsubstituted, or mono- or polyalkylated and/or mono- or polyfluorinated;

R^3, R^4

R^3 and R^4 are, independently of one another, ~~denote~~ CH_2 , CF_2 or $\text{C}(\text{R}^1)_2$;
~~independently of one another;~~

m is 0, 1 or 2, and ~~denotes 0, 1, 2~~

n is 0, 1 or 2 ~~denotes 0, 1, 2.~~

2. (Currently Amended) A compound according to claim 1, which is
(8-Ethoxynaphth-1-yl)diethylaluminium,
(2-methoxymethyl)phen-1-yl)diethylaluminium,
(2-methoxymethylphen-1-yl)diisobutylaluminium,

(2-methoxybenzyl)diisobutylaluminium,
[2-(methoxy)phen-1-yl]diisobutylaluminium, or
[2-(butoxy)phen-1-yl]diisobutylaluminium as compounds according to Claim 1.

3. (Currently Amended) ~~Use of the compounds of the general formula (I)~~
A coordination catalyst system comprising as a cocatalyst, a compound according to Claim 2
~~1 as components in coordination catalyst systems.~~

4. (Currently Amended) ~~Use of the compounds of the general formula (I)~~
A coordination catalyst system according to Claim 5, which comprises a 1 as components in
Ziegler-Natta catalyst catalysts.

5. (Currently Amended) ~~Coordination catalyst systems~~ A coordination
catalyst system comprising as a cocatalyst, a compound of compounds of the general formula
(I) according to Claim 1.

6. (Currently Amended) ~~Coordination catalyst systems comprising~~
~~compounds of the general formula (I)~~ A coordination catalyst system according to Claim 1,
which comprises a in combination with transition-metal compound of compounds from sub-
group IV to VIII of the Periodic Table of the Elements.

7. (Currently Amended) ~~Coordination catalyst systems comprising~~
~~compounds of the general formula (I)~~ A coordination catalyst system according to Claim 1,
which comprises a in combination with transition-metal compound of compounds from the
group TiCl₄ [[5]] or VCl₄.

8. (Currently Amended) ~~Coordination catalyst systems comprising~~
~~compounds of the general formula (I)~~ A coordination catalyst system according to Claim 1,
which comprises a characterised in that they comprise transition-metal compound of
compounds from the group TiCl₄, which is supported on MgCl₂, or VCl₄, which are is
supported on MgCl₂.

9. (Currently Amended) ~~Process~~ In a process for the preparation of polymers by polymerisation, ~~characterised in that~~ wherein the improvement is that said polymerization is carried out in the present of a coordination catalyst system according to Claim 5 ~~is used~~.

10. (Currently Amended) ~~Process for the preparation of~~ A process according to claim 1, ~~wherein~~ polyethylene is prepared, ~~characterised in that a coordination catalyst system according to claim 5 is used~~.

11. (Currently Amended) ~~Process for the preparation of~~ A process according to claim 1, ~~wherein~~ high-molecular-weight polyethylene is prepared, ~~characterised in that a coordination catalyst system according to claim 5 is used~~.

12. (Currently Amended) ~~Process for the preparation of compounds of the general~~ A process for preparing a compound of formula (I) according to Claim 1, comprising reacting ~~characterised in that an alkoxyarylmatal compound is reacted with a dialkylaluminium chloride, where~~ wherein the alkoxyarylmatal compound to dialkylaluminium chloride molar ratio is 1:1.

13. (Currently Amended) ~~Process~~ A process according to Claim 12, ~~comprising characterised in that~~
a) mixing together an alkoxyarylmatal compound, suspended in a hydrocarbon, diethyl ether or tetrahydrofuran, ~~is mixed~~ with an equimolar amount of a dialkylaluminium chloride, dissolved in a ~~suitable~~ hydrocarbon, at a temperature of +20 to -78°C, and
b) stirring the mixture ~~is stirred~~ at a temperature of 20 to 80°C for 2 to 60 hours, removing the hydrocarbon, diethyl ether or tetrahydrofuran, and optionally separating a compound of formula I solvent is removed, and the desired reaction product is separated off by distillation or crystallisation.

14. (Currently Amended) ~~Process~~ A process according to Claim 12, ~~wherein characterised in that~~ the alkoxyarylmatal compound ~~employed~~ is an alkoxyaryllithium or alkoxyaryl-Grignard compound.